

All the back part of this Child was covered with the *Omentum*; which was about two fingers thick, and stuck hard to divers parts of the Body of it, not to be separated without a Knife; which being done, very little blood issued. This Infant weighed Eight pounds Haverdupoyse, The Skull was broken into several pieces, The Brain of the colour and consistence of Oyntment of *Roses*. The Flesh red, where the *Omentum* stuck, other parts whitish, yellowish, and somewhat livid; except the Tongue, which had the natural softness and colour. All the inward Parts were discolour'd with a blackishness, except the Heart, which was red; and without any issuing blood.

The Forehead, Ears, Eyes and Nose, were cover'd with a Callous substance, as thick as the breadth of a finger: which being taken away, the parts appeared, as in the Figure.

The Gums being cur, the Teeth appeared in the adultness of those in grown persons. The Body had no bad smell, though kept three days out of the Mothers Belly. The length of the Body from the Buttocks to the top of the Head, about 11 Inches. The Mother died about the Sixty fourth year of her Age.

An Account of some Books.

- I. Johannis Wallisii, S. T. D. in Celeberr. Academia Oxoniensi Geometria Professoris Saviliani, Exercitationes Tres: 1. De Cometarum Distantiis investigandis. 2. De Rationum & Fractionum Reductione. 3. De Periodo Juliana. Londini, 1678.

Concerning the first, the Learned Author acquaints us, in the beginning thereof, That about fifteen or sixteen years since, it was proposed to himself by that excellent Mathematician Sir *Christopher Wren*, as a thing of use, *sc.* To find out the Distances of Comets from the Earth: and since then, hath been by him, * otherwise than is here, performed. To whom our Author then returned an Answer, *sc.* This same, which upon our Worthy Countrey-man Mr. *John Collins* his request, he hath here published.

*See Mr. *Hookes* Book, entituled, *Lectures and Collections*; or the Account of it hereafter given in these Transactions.

The

The Probleme he sets down thus ;

Expositis in eodem Plano, quatuor Rectis positione datis, quintam invenire, quæ ab expositis ita secetur, ut interjecta segmenta sint in ratione datâ. Whereof he gives the solution at large.

The second Treatise is designed also chiefly for the use of Astronomers ; who often enquire, the mutual proportion either of the Parts of some one Planetary System, or of any two Systemes. As also of the Distances and Magnitudes of Cœlestial Bodies. Which to give in the least Numbers, and so as to avoid greater Fractions, is a performance of as great use, as delight, and altogether new.

The Probleme, the Solution whereof taketh up the greater part of this Exercitation, is as follows, *vid.*

Expositâ Fractione quâvis (putâ $\frac{268+162}{8376371}$) Fractionem invenire, quæ sit vel Expositæ æqualis, si fieri possit ; vel saltem, quæ Expositam vel proximè superet, vel ab eâ proximè deficiat, Denominatorem habens dato Numero non majorem : (putâ, quæ numerum 999 non superet, seu tres locos non excedat :) sitque in Terminis minimis.

For the doing of which, he first lays down his Method at large. Next, gives a summary of all the Rules. And then subjoyns several Examples in both the above specified Reductions.

To this he adds also, in the end, the way of finding out of the Proportion of the Diametre of a Circle to the Circumference : proposed in his own words thus, *vid.*

Ratio Diametri ad Perimetrum Circuli vero minor, sed continuè crescens ; seu Perimetri ad Diametrum vero major, sed continuè decrescens ; donec intra assignatos terminos consistat.

The last Treatise containeth the Solution of this Probleme, *vid.*

Exposito Anno, qui sit, verbi gratia, in Cyclo Solari, Annus 22, Lunari, 14, Indictionum, 7 : quæritur, quotus sit ille Annus Periodi Julianæ.

II. Martini Lister è *Societate Regia*, Londini, *Historia Animalium Angliæ tres Tractatus. Unus, de Araneis. Alter, de Cochleis tum Terrestribus, tum Fluvialibus. Tertius, de Cochleis Marinis. Quibus adjectus est quartus, de Lapidibus ejusdem Insulæ ad Cochlearum quandam imaginem figuratis.* Londini, apud J. Martyn Reg. Soc. Typogr. 1678.

THe Learned Author, in his Preface, acquaints us, amongst other things, with the great care he took in preparing his Observations for this Work. Principally designing herein a most exact distribution of the kinds of those Animals whereof he Treateth, into their several sorts. To the end, that what ever Experiments or Observations shall be made by others hereafter of these Animals, worthy publishing, they may hereby be referred to their proper places.

The first Tract containeth two Books. The former whereof treateth of *Spiders* in general. As a description of their several Parts, both outward and inward. Of their Generation. The Nature and Emission of their Thred. Casting their *Cuticle*. Of their Food. Venom. Several either false or dubious Traditions concerning them. Medicines made of them.

The Second Book containeth a distribution of *Spiders* into their several *species*, as followeth in the Authors own Table.

Aranei

Oſonoculi,

Aucupes ;
qui, Muscas
capiendi
causâ ten-
dunt

Reticulæ

Scutulata Antiquis dicta ; scil. universis
maculis in eodem plane dispositis, in
modum Scuti sive Orbitæ.

Conglobata ; scil. maculis crebris in
omnes in circuitu dimensiones proce-
dentibus.

Telas linteiformes ; scil. Reticulorum filis
densè inter se contextis in modum Veli sive
Panniculi.

Venatorii ; qui aperto Marte Muscas inseſciantur, cum tamen
aliàs texere possunt ; nimirum Telas ad Nidificationem, &
ad hyberna.

Lupi, propriè sic dicti.

Cancriformes.

Phalangia, s. Aranei Pulices assultim ingredientiæ.

Binoculi, ferè longipedes, Opiliones quibusdam dicti, Telis digita-
tis sive forcipatis, Cancrorum more armati.

Under which, he hath also some other Subdivisions, made afterwards, in their several proper places. Of

Of all which he likewise exhibits the Figures, sets down the Descriptions, Place, Time of Laying, Manner of Coition. Describes their Eggs, Nests, Nets, Threds. Speaks of their Food and manner of Living, very high ascent into the Air, &c. The Work containing many curious Observations, not only out of our Country-man *D. Mouffet*, and other Learned Authors, but of his own likewise, and such as are altogether new.

The Second Treatise hath Three Parts. The first of *Snails* in general. As of their Shells, and other parts both outward and inward. Their *Saliva*, Eggs, Food, Use in Medicine. Diet, &c. The second of *Land Snails*. The third of *River Snails*. The several sorts whereof are figur'd, described, and comprized by the Author within the following Table.

		Testaceæ, seu Testis connectæ.	
Cochleæ	Terrestres,	Turbinatæ,	Breviore figura, Testæ Apertura clausa Operculo, è Saliva confectio, ad hyemem Operculo testaceo.
			Longiore figura sive Buccina; convolutæ à Dextra versus sinistram, à Sinistra versus dextram.
			Compressa.
	Nudæ, Limaces quibusdam dictæ.		
	Fluviales,	Turbinatæ,	Validiore Testa, Operculo testaceo clausa.
			Tenui, pellucida, semper aperta; convolutæ à Dextra in sinistram, à Sinistra dextram versus.
			Compressa Testa, Coccum fundentes.
	Bivalves, Musculi quibusdam dictæ.		
		Univalvis, Patella dicta.	

The Third Tract is of *Sea-Snails*, which by the Author are figur'd, and distributed into the following Table.

Cochleæ Marinæ	Turbinatæ,	Testæ apertura cavaliculata, Buccina rostrata dicta.	
		{ Leves.	
		{ Striatæ.	
		Plana Apertura.	
	{	Intortæ, sc. anfractuosæ.	{ Figura productione.
			{ Breviore.
		Orbes non habentes, Echinus dictus.	{ Cochleæ formes.
			{ Umbone minimè omnium extante, Neritæ dictæ.
	{		{ Basi lata & plana, Trochi dictæ.
		Ex omni parte arcte clusiles.	Omnium patentissima, i. e. Auris marina.
			In angustam rimam formata, i. e. Concha Veneris.
		Non Striatæ.	
Bivalves,	{	Conchæ.	
		Asperæ, valvis dissimilibus, Ostreæ dictæ.	
		Setifera, Musculi dictæ.	
		Striatæ.	
	{	Aurita, Valvis dissimilibus, Pedicines.	
		Non Aurita, Valvis æqualiter concavis, Peduncululi.	
		Minus concavæ, Tellina quibusdam.	
		Altera aut utraque parte semper hiantes.	{ Leves.
	{		{ Striatæ.
		Univalves,	{ Loco mobiles vertice integro, Patellæ.
			{ Fixæ, vertice aperto, Balani.

The last Book *de Cochlitis Angliæ*, presenteth the Figures and Descriptions of as many as are contained in this Table, *vid.*

Cochlitæ Angliæ	Turbinati,	Quorum Orbes in se convolvuntur, <i>Cornua Ammonis.</i>	
		Intortæ, S. anfractuosi.	Utrinq; ad Umbilicum æqualiter concavi.
			{ Striati.
			{ Leves.
			Ex alterâ tantum parte.
		Umbilico utrinque prominulo.	
		Buccinorum in modum producti.	
		{ Striati.	
		{ Leves.	
		{ Productiores	
		{ Cochleæ formes.	
		Qui Helicem, sc. Volutam non habent.	
		{ Striati subrotundi, ut Echinite.	
		{ Striis in omnes partes æqualiter procedentibus.	
		{ Striis inæqualiter procedentibus.	
		Leves in acumen fastigiati, ut Belemnite.	
	Bivalves,	Leves,	Utrâque Testâ æqualiter concavâ.
			{ Figurâ ex alterâ cardinis parte diffusiore.
			{ Ex utrâque parte æqualiter diffusi.
			{ A cardine ad imum marginem productiores.
			Ventricosi, quibusdam Bucarditæ.
			Testis inæqualibus.
			{ Ostracitæ.
			{ Conchitæ rostrati.
		Striati,	{ Auriti, Peclinitæ.
			{ Sine auribus, Peclunculitæ.

The Author in his Preface to this last Book, inclines to their Opinion, who take not these figur'd Bodies for Petrified Shells, but to be bred like other Stones, in the Earth. For which he offers some Arguments either not, or less insisted on by others,

These three last Books are composed with the same accurateness as the former.

III. *Lectures and Collections made by Robert Hooke, Secretary of the R. Society. Printed for J. Martyn, Printer to the R. Society, 1678.*

THe Work is divided by the Learned Author into two Parts. The first is called *Cometa*; containing, besides Observations of the Comets of 1664, 1665, and 1677, discourse also on Comets in general. As amongst other particulars, of the Head, *Nucleus*, and *Blaze*. That this is not always opposite to the Sun. Their Magnitude, Substance; thought, by the Author, loose and confusable; as from the variation of the Magnetical direction, he supposeth that also of the inner parts of the Earth to be. Density, Mutability, Dissolution, Fluidity, Gravity, Light, Figure, Motion, whether bended or strait, with equal or unequal velocity, &c. A Digression of the method of Speculating the great and first Principles of the Universe, Theory of Comets, as to Parallax hitherto defective. What the World expects from Mr. *Hewellius*. Parallaxes arising from Hypotheses of the proper motions either of the Earth, or Comet, or both together consider'd, arise to a certainty of the Magnitude of Comets: others, depending on other suppositions, not. Allowing inequality of Motion, and more compounded Curve Lines, nothing can be determin'd. A gravitation towards the Sun, makes out the Motion of the Comet, and direction of the Blaze. Comets waste in the *Aether*, which is as a Menstruum to dissolve them. The way of enquiring Parallax by Telescopes further explain'd. A second way by two Observers at a distance propounded: A third way of Sr. *Christ. Wren*, his Majesties Surveyor General, set down and demonstrated by a Geometrical Probleme, an Invention altogether new. And how exactly all the Observations he had of the above-said Comets, were made out by it: together with his own Schemes. Communicated *Febr. 166 $\frac{4}{7}$* .

Speaking of the nature of the *Blaze*, introduceth a Discourse of the Honourable Mr. *Boyle, sc.* A Memorial of some Observations made upon an Artificial substance, in the possession of Mr. *Craft* a famous *German* Chymist, that shines without any precedent illustration. Wherein, amongst other particulars, is observed, that two spoonfuls of matter did enlighten a large Glass-sphere. Liquor shaken, had a smoke
and

and flash'd. A dry substance, affirm'd to have continued shining two years, flash'd. Seemed to partake of the odor of *Sulphur* and of *Onions*. It fired *Gunpowder* first warmed, And a White paper, held a considerable distance over Coals. To which are added some Experiments on the *Phosphorus Baldmini in vacuo*, and in the open Air.

To these are added Mr. *Gallet's Apparatus* for observing ☉ in ♀, and his observations of 4 Spots in ☉; contained in a Letter to Mr. *Cassini*. Mr. *Cassini's* reflexions hereon. And his further discoveries about the motion of *Jupiter* upon its own Axis, and several new Appearances of that Planet. Together with Mr. *Hally's* Observat. of ♀ sub ☉. Three Southern Stars never visible in *England*. And the 2 *Nubeculae*, called by Saylor, the *Magellanick Clouds*; in a Letter to Sir *Jonas Moore*.

The Second Part is called *Microscopium*. In which, two Letters from Mr. *Lewenboeck*, containing further Observations of the little Animals, of several kinds, bred in Water, after the infusion of *Pepper*. Likewise of the Particles of Blood, Milk, Phlegm, Gums dissolved and precipitated. The manner how the same were also seen at the Meetings of the *R. Society*. As also how to find the figure and texture of Animal and vegetable parts. A description both of double and single *Microscopes*; and how they are to be used. Of the like little Animals (as above) bred upon steeping other Grains in Water, as well as *Pepper*.

Hereto is added a Relation of the Symptoms following the slipping of a Leaden bullet into the Wind-pipe of a certain person, and there sticking till his death, which hapned not before some years after. Together with what was observable in his *Lungs* upon Dissection; in a Letter from Mr. *James Young*, an experienced Chirurgion in *Plimouth*.

To the whole Book are added Five Tables of Figures, *An Advertisement of the Monthly continuation of the Mechanick Exercises*; by Mr. *Joseph Moxon*.

THe Ingenious Author having begun and continu'd his three first Months Exercises on *Smithery*: in these three next, he gives an account of *Foyner*.

In the first, a description of some Tools. Then of Setting the Iron. Of the Joynter. The Strike Block. The Smoothing Plain. Rabbet Plain. The Plow. Molding Plains. Grinding and Whet-
ing